

CLAIMS

1. A process for the production of high-octane gasoline from a hydrocarbon feed stream with C₄₊ hydrocarbons cuts comprising contacting the feed under isomerisation conditions with a catalyst composition comprising mixed aluminium and zirconium oxides modified with tungsten oxyanion and hydrogenation/dehydrogenation component of a Group VIII metal.
2. A process according to claim 1, wherein the hydrocarbon feed contains at least 20 wt% of C₇₊ hydrocarbons.
3. A process according to claim 1, wherein the isomerisation conditions comprise presence of hydrogen with a hydrogen to hydrocarbon ratio between 0.1 to 5, a temperature range from 150°C to 300°C, a total pressure of between 1 and 40 bar and a liquid space velocity LHSV of between 0.1 to 30 h⁻¹.
4. A process according to claims 1, wherein the catalyst in its dry form comprises 10-50 wt% of tungsten oxide, 10-40% of aluminium oxide and a remainder of zirconia and Group VIII metal.
5. A process according to claim 1, wherein the Group VIII metal is platinum and/or palladium in an amount of between 0.01% to 5%.